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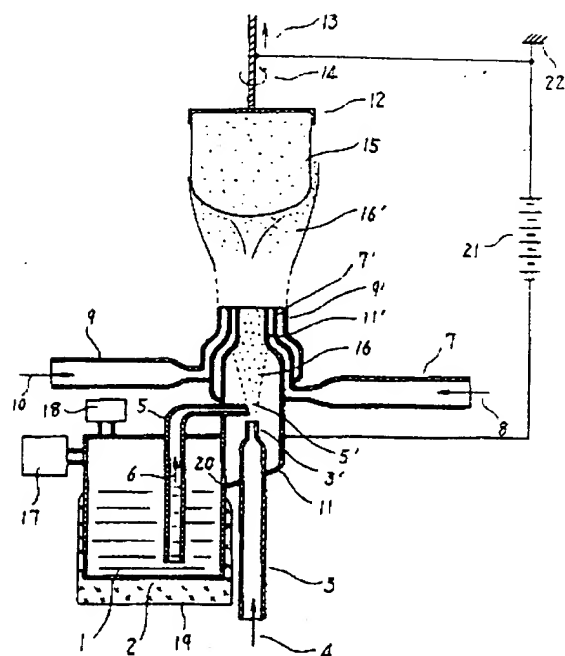
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TITLE : MANUFACTURE OF OPTICAL FIBER
MOTHER MATERIAL



ABSTRACT : PURPOSE: To obtain a mother material for optical fiber in high yield by a high-speed manufacturing method in which DC voltage is applied between a negative voltage- nozzle side and an earthed target, and an ionized glass fine particle is blasted against the target from the nozzle.

CONSTITUTION: The glass raw material 1 of a glass composition is atomized by means of a gas containing hydrogen from the nozzle 3', mixed with an oxidative gas from the pipe 9 and then burned, and then the flame 16' is blasted against the target 12 to deposit the glass fine particles 15. In this case, a DC voltage is applied between the negative voltage-nozzle 3' and the earthed target 12. Thus, the negatively charged glass fine particles with ionized gas coming out of the nozzle 3' collides with the earthed target 12 having a sign different from that of the glass fine particles rapidly and effectively to deposit the glass fine particles 15 of a uniform thickness in order to obtain the optical fiber mother material 12.

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